



1600

# 17

## RAW SEQUENCE LISTING

DATE: 05/06/2003

PATENT APPLICATION: US/09/404,706A

TIME: 13:56:37

Input Set : D:\seqlist.txt

Output Set: N:\CRF4\05062003\I404706A.raw

4 <110> APPLICANT: Williams, Lewis T.  
 5 Escobedo, Jaime  
 6 Innis, Michael A.  
 7 Garcia, Pablo Dominiguez  
 8 Sudduth-Klinger, Julie  
 9 Reinhard, Christoph  
 10 Giese, Klaus  
 11 Randazzo, Filippo  
 12 Kennedy, Giulia C.  
 13 Pot, David  
 14 Kassam, Altaf  
 15 Lamson, George  
 16 Drmanac, Radoje  
 17 Crkvenjakov, Radomir  
 18 Dickson, Mark  
 19 Drmanac, Snezana  
 20 Labat, Ivan  
 21 Leshkowitz, Dena  
 22 Kita, David  
 23 Garcia, Veronica  
 24 Jones, Lee William  
 25 Stache-Crain, Birgit  
 27 <120> TITLE OF INVENTION: Novel Human Genes and Gene Expression  
 28 Products V  
 30 <130> FILE REFERENCE: 2300-1492  
 C--> 32 <140> CURRENT APPLICATION NUMBER: US/09/404,706A  
 33 <141> CURRENT FILING DATE: 1999-09-24  
 35 <150> PRIOR APPLICATION NUMBER: 60/102,180  
 36 <151> PRIOR FILING DATE: 1998-09-28  
 38 <150> PRIOR APPLICATION NUMBER: 60/102,161  
 39 <151> PRIOR FILING DATE: 1998-09-28  
 41 <150> PRIOR APPLICATION NUMBER: 60/102,380  
 42 <151> PRIOR FILING DATE: 1998-09-29  
 44 <150> PRIOR APPLICATION NUMBER: 60/103,815  
 45 <151> PRIOR FILING DATE: 1998-10-08  
 47 <150> PRIOR APPLICATION NUMBER: 60/105,877  
 48 <151> PRIOR FILING DATE: 1998-10-27  
 50 <160> NUMBER OF SEQ ID NOS: 1079  
 52 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 54 <210> SEQ ID NO: 1  
 55 <211> LENGTH: 300  
 56 <212> TYPE: DNA  
 57 <213> ORGANISM: Homo sapiens

ENTERED

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Input Set : D:\seqlist.txt

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59 &lt;400&gt; SEQUENCE: 1

60 aattccgttg ctgtcggcag acggctttca gagtacaata aacagggaat gagaactatt	60
61 tacatggaat gttctttctc atgatgcggt ggagaagcct cggccacttg gttctgccag	120
62 atgttcctgg ggttactgta aatgggaagg acaggcagag ctaaacaagg ttatcattt	180
63 aaaagtgcct gtgtgaagtc acttttgctg gaaaactgca gcttgggagc tttctttgta	240
64 ttcacatccc actcttctgt caagtacact ttaccctgac cttatgagtg gatgaagata	300

66 &lt;210&gt; SEQ ID NO: 2

67 &lt;211&gt; LENGTH: 398

68 &lt;212&gt; TYPE: DNA

69 &lt;213&gt; ORGANISM: Homo sapiens

71 &lt;400&gt; SEQUENCE: 2

72 cttgaacttc tgggctcaag tgattctccc acctcagcct cccaaagtgt tgggattgta	60
73 ggtgtgaact actgtgcctg gccttctaca tttttttttt aaccatttca tagttccctt	120
74 tttctttgaa cacttggtcc aaactcactt ttcttctgga ttcataattt ctgatctcac	180
75 ctattatggt atagaactga tatgttacgt ttgttttcat tgatgcgtct gtacttggct	240
76 tcagagagca aaacaaggcc ctgtgagtc ctgggagcca gattttggat caaaataaat	300
77 cactttctga caagtgtagt tgtctagtaa tggaatgagg cagtcttctt aggaagtaat	360
78 gaattccctg caccaaaaagg gagaagctag cgagccac	398

80 &lt;210&gt; SEQ ID NO: 3

81 &lt;211&gt; LENGTH: 424

82 &lt;212&gt; TYPE: DNA

83 &lt;213&gt; ORGANISM: Homo sapiens

85 &lt;400&gt; SEQUENCE: 3

86 aaaatacaat gtctaggagc tatcccaggg tcgtgaatcc tcgagtgcag gtggggaagt	60
87 aggggtgatac ccacctgtga ccatgacaag ttttgagagc cagaaactcg gatagagttt	120
88 ctagaacccc gcatccctct catactgcct gaagccctcc tctggggaga gtgtcatcac	180
89 agtaccatgt ggcattgcgag tgtcgtggta atgctccccg accaaaccac caaaccgagg	240
90 gttgggctgc ttattctcgc tgcccaataa tgagatgcag ataaactagg aaagaaagga	300
91 gtttatttct gtaaccagggt acggggcgaa ggcgtggaaa atatcccaga ccgactcaga	360
92 attacagagc tttccagagc ttatatacct tgtaagttgt atgtttatgt gtaaagtgtg	420
93 catt	424

95 &lt;210&gt; SEQ ID NO: 4

96 &lt;211&gt; LENGTH: 411

97 &lt;212&gt; TYPE: DNA

98 &lt;213&gt; ORGANISM: Homo sapiens

100 &lt;220&gt; FEATURE:

101 &lt;221&gt; NAME/KEY: misc\_feature

102 &lt;222&gt; LOCATION: (1)...(411)

103 &lt;223&gt; OTHER INFORMATION: n = A,T,C or G

105 &lt;400&gt; SEQUENCE: 4

106 gctggccagc atagtgaac cctgtctcta ctaagaatac aaaaattagc aggcgtgctg	60
107 gcgggcacct gtaatcccag ctgctcgga ggctgaggca ggagaattgc ttgaacccag	120
108 gaggtggagg ttgcagtga cagagatcat gctgctgcac tccagcctgg gtgacagagt	180
W--> 109 aagactccgt cttgggagaa aaaaaaaaaa anggaagggg naatnnanat nccanttttt	240
110 tntntntaaa tttaanaaan ttaaaaatgg nttttttaa tnnntnnaaa ngtttgnaaa	300
111 tganccataa nannncggt ngcaaacngg ccnnggtttt tgnntncant nggagancag	360
112 ggtttnaaac natcgtngt ncnttganaa atggttagtt tttganggca a	411

114 &lt;210&gt; SEQ ID NO: 5

115 &lt;211&gt; LENGTH: 390

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Input Set : D:\seqlist.txt

Output Set: N:\CRF4\05062003\I404706A.raw

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116 <212> TYPE: DNA
117 <213> ORGANISM: Homo sapiens
119 <400> SEQUENCE: 5
120 ggaggccaag gctggaggat tgcttgagat caggagttca agaccagcct gggcaacata      60
121 gttagacctt gtctctatTT ttaaaaatat aacaagcaca gttgtacacg tctttagtTc      120
122 agctgctcag gaggctgaag tgggaggatc ctttgaaccc aagagtttga ggctgcagca      180
123 agccatgata acaccactgc actccagcct ggttgacaga gtaagaccct gtctcaaaact      240
124 ttttttaaaa tgaaagaatc caaccttttt ttactctgac ctgagagagt gcagagggTc      300
125 tggggaacat ttgcagaagc aacaggTacc agccagtgtc ggaaggagct caccctggga      360
126 ggtctcgtca gcctctgtcc tTcatggctg      390
128 <210> SEQ ID NO: 6
129 <211> LENGTH: 401
130 <212> TYPE: DNA
131 <213> ORGANISM: Homo sapiens
133 <400> SEQUENCE: 6
134 ccgacacttt gggaggccaa ggcaggagga tggcttgaag ccagtagttc aagaccagcc      60
135 tgggcaacat agtaagaccC catctctatg aagaataaaa aaatgagcta ggcgtggtag      120
136 tgcacacctg tagtcctagc tacttgggag gctgaggcag gaggatccct tgagtccagg      180
137 aggttgaggc tgcagtgagc tgtgattgtg ccactgtttt ccagcctggg caatacagtT      240
138 agaccctgtc tcaaaaaaag gaaaaaaaag ctcaaaaagt tctgtgttgc ctttctcttc      300
139 ttagctgatg atgggagaac cagtTactac cttctctaac acaggctcca tcctatctct      360
140 tcatctcttc ttgccagtga tgttgcacct gtaaccatct t      401
142 <210> SEQ ID NO: 7
143 <211> LENGTH: 413
144 <212> TYPE: DNA
145 <213> ORGANISM: Homo sapiens
147 <400> SEQUENCE: 7
148 caggatttgc tttttccctg ctttgaagaa aagctgaagt caaatTTtat gaatactcag      60
149 tagcatccgt caagaaaaaa aaaagaaaaa gaaaaatttg catgtagggg gttctgttct      120
150 caacagtgtg cgcagtTTtg gggctacagt agggctgagg ccgcacgcca gttccatttc      180
151 acagggTtcc tgtttcctag taactgcttc tactcgagcc ttctcagga aagcccaaaa      240
152 tagcaattga gagtaaaatg atttgaaaac gtgggtgtgc tgctgctggg actccaccct      300
153 cagtaacgat caggcattgt tctgtcttcc ttgctcaggg ggggcacact tcaagagatt      360
154 aaatttactg caggataaac agaatgcgtg ttccacagca ggctaataaa acc      413
156 <210> SEQ ID NO: 8
157 <211> LENGTH: 409
158 <212> TYPE: DNA
159 <213> ORGANISM: Homo sapiens
161 <220> FEATURE:
162 <221> NAME/KEY: misc_feature
163 <222> LOCATION: (1)...(409)
164 <223> OTHER INFORMATION: n = A,T,C or G
166 <400> SEQUENCE: 8
W--> 167 cccagcagtT tttactgagg acctggnttt ctagaacagg tgtgnccTgt cctettccat      60
168 gttccctggg ggctggTcag ctccaagtTg tgggtggcag anctgngttt ancatgaact      120
169 gactaaagac ccatntggag gcaaatatta agttgccagg actgctttca cttcagggTg      180
170 attgaaggnc acatattgaa gtacctagaa tgccagaaaag tgtTntnttg cccanaaaaa      240
171 aaatcagaaa agcctattct tttttgcaac nctgtTaatg attactggag ttcttgaaaa      300
172 atactttgtg ccnccttgga agactntgaa acncgnnttc cntgggattt tgctgtaaat      360

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```

173 nacnntncnn tggcnctgaa gnttnccttg gntgcctagc tntaaaaaa      409
175 <210> SEQ ID NO: 9
176 <211> LENGTH: 392
177 <212> TYPE: DNA
178 <213> ORGANISM: Homo sapiens
180 <400> SEQUENCE: 9
181 accacgccgg gctaattttt gtatttttag aagagatggg gttccgccat gttggccggg      60
182 ctggtctcga gtcctgacc tcaggtgacg cgcccgccctc ggtctcccaa agtgctggga      120
183 ttacaggcaa taactttatg tctcccctcc cttatctctg ggcaaacctt gtttattctc      180
184 tactaacttg gttgtaatct gttcatcaaa gtagaccctt gaatttgta ttctccaggc      240
185 tgctgggaca cgttggagtg gccttagaag gctgcaaaat ggactgatgg tttctgcctt      300
186 cactgacgt cccaatacga cttcctaata ctagggtctc agttcctgat accagaatta      360
187 caggagaaaa atgtgggttc tgcagggtg tg                                392
189 <210> SEQ ID NO: 10
190 <211> LENGTH: 300
191 <212> TYPE: DNA
192 <213> ORGANISM: Homo sapiens
194 <400> SEQUENCE: 10
195 aattccgttg ctgtcgttca cttatgccta taagcgggca tacaacaggg gcgcaataaa      60
196 tgtttgtaa gtgaatgaat tctttcagaa ctatagtgga tcttagtcca actctcttat      120
197 ttaacgaggt ccacagaggt tctgcgattg tctaagaaaag aaggctgtgt tcatggcctt      180
198 tgttgtttac gtggccctgt gattctcttg gtcctgtgaa agtcctgatg cagacattcc      240
199 ggccatctag aaaggcatgc agacaagcca tccagctggc atgatcctga gtccagcttt      300
201 <210> SEQ ID NO: 11
202 <211> LENGTH: 401
203 <212> TYPE: DNA
204 <213> ORGANISM: Homo sapiens
206 <220> FEATURE:
207 <221> NAME/KEY: misc_feature
208 <222> LOCATION: (1)...(401)
209 <223> OTHER INFORMATION: n = A,T,C or G
211 <400> SEQUENCE: 11
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213 tgtcactgaa gcaattgttg aaagggcctc acagttcatt cgctttccag ctgatgaagc      120
214 ctccattcag gctctgaagg atgaattcta tgggttgga gggatgccag gggatgagg      180
215 ggtggttgac tgtatccatg tggccatcaa ggcaccacat gctgaagacc tctcctatgt      240
216 gaaccgaata ggcctgcatt ctataaactg ctgatgggtg gcgacattag agggacacta      300
W--> 217 ntgaccgtng agacanactg tcccgnanc ctanatgact gngctgtgct gcagcagnct      360
218 tcctcagtan ncancatgaa gcgganagc acaaaaaatc c                                401
220 <210> SEQ ID NO: 12
221 <211> LENGTH: 403
222 <212> TYPE: DNA
223 <213> ORGANISM: Homo sapiens
225 <400> SEQUENCE: 12
226 atctctgaat tctgaatagc tgacaacccc caatgttatc cactctgttg cttttgtctg      60
227 gaaaactcta cagtgtttgt gggatgtccc caaaggaaaag ctatgttcta attttatcat      120
228 ttccatctgt ctggttatgt caagttaatt cagaaaagaga agagacagtg accaaccttg      180
229 agaggcctaa tagggcagag atggaggcct gccagacta ggaggcagcg gggatagaca      240
230 gggaatgggg agaagaaaga ccccatattg tttggaaatc aaggagaggg cggtgacata      300

```

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Input Set : D:\seqlist.txt

Output Set: N:\CRF4\05062003\I404706A.raw

```

231 ttggaccaga agaggcacta ccattttaag gagaggaaag agaaaactct ggggtcaggg      360
232 agagacccta cccccctaa ttatccacat atatgtaaga aat                        403
234 <210> SEQ ID NO: 13
235 <211> LENGTH: 390
236 <212> TYPE: DNA
237 <213> ORGANISM: Homo sapiens
239 <400> SEQUENCE: 13
240 caaaggtgaa gcaggacatg cctccgccgg ggggctatgg gcccatcgac tacaaacgga      60
241 acttgccgcg tcgaggactg tcgggtcagt atcactctgc gccgggggtct cagagtctgg      120
242 gcactcgggg ctcgggggcg ggggtccggg gacacaggcg ggccctcagtt ttcccggcgg      180
243 tgtgaccgga ggcggagccc ggggatccat catagcttct gtaataacgc taagtgtctgc      240
244 agtttgttga ggtctttccc agctcctctt ccttctcgta acagcccagg aaatcgtctc      300
245 ctctagttaa ttacgtttta cagtgggtta aactgagtca tagcctgtgc tctggccctc      360
246 agccaccctt ggatttctaa gatggggaaa                                     390
248 <210> SEQ ID NO: 14
249 <211> LENGTH: 400
250 <212> TYPE: DNA
251 <213> ORGANISM: Homo sapiens
253 <400> SEQUENCE: 14
254 ggtaattctt aagagcgttc tgacagcttt tctcgtgctg tggttgcctc actggggatt      60
255 gtacattttc tctttggccc agcttttcta taccacagtt ctggtgctct gctatgttat      120
256 ttatttcaca aagttaactg gttcccaga atcaaccaag cttcaaactc ttcctgtctc      180
257 cagaataaca gatctgttac ccaatattac aagaaatgga gcgtttataa actggaaaga      240
258 ggctaaactg acttgagatt ttttcaaaca gtctttcttg aaacagattt tgacagaagg      300
259 cgagcgatat gtgatgacat ttttgaatgt attgaacttt ggtgatcagg gtgtgtatga      360
260 tatagtgaat aatcttggct cccttgtggc cagattaatt                                     400
262 <210> SEQ ID NO: 15
263 <211> LENGTH: 378
264 <212> TYPE: DNA
265 <213> ORGANISM: Homo sapiens
267 <220> FEATURE:
268 <221> NAME/KEY: misc_feature
269 <222> LOCATION: (1)...(378)
270 <223> OTHER INFORMATION: n = A,T,C or G
272 <400> SEQUENCE: 15
273 aaaaaacatc tacgagacaa aggagaggat gataaaatgc ccccgctccg gaagaaacag      60
274 cgtggtttgc ttttaagggt gcagcaagaa aaggcagaaa taaaacgtct tcaagaagcc      120
275 aataaggcag ctcggaagga aagacagctg attcttaaac agcaggagga gatagaaaag      180
276 atccgacaga ccaccataaa actacaggag aaattgaagt ctgcagggga gagtaaatg      240
277 gactctcata gtgatgatga tacaaaggat aataaggcaa ccagtcctgg tccaactgac      300
278 ttggagaccc gcagtccttc tcccatttca atctccagca gtgaaaactag cagcattatg      360
W--> 279 cagaaactga anaaaaatg                                     378
281 <210> SEQ ID NO: 16
282 <211> LENGTH: 300
283 <212> TYPE: DNA
284 <213> ORGANISM: Homo sapiens
286 <400> SEQUENCE: 16
287 aattccgttg ctgtcgcttc cgcttggaca tcagctttga aagccaacac atcctcctga      60
288 gaggggacaa gacaagcagg gatatgtggg ccaactggatc ttgcccagac ttcccagctg      120

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RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 05/06/2003  
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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; N Pos. 212,221,225,226,228,231,235,242,245,256,260,271,283,284,286  
Seq#:4; N Pos. 287,291,297,304,311,312,314,315,321,328,333,334,343,344,346  
Seq#:4; N Pos. 349,351,357,366,371,377,381,383,388,396,406  
Seq#:8; N Pos. 27,45,102,106,112,135,189,225,227,235,271,313,326,333,336  
Seq#:8; N Pos. 337,342,361,364,365,367,369,370,375,382,385,392,402  
Seq#:11; N Pos. 301,309,316,327,329,334,342,358,370,371,374,386  
Seq#:15; N Pos. 372  
Seq#:18; N Pos. 285,296,367,373,410  
Seq#:21; N Pos. 353,395  
Seq#:31; N Pos. 335,364,368  
Seq#:33; N Pos. 399  
Seq#:34; N Pos. 382,390,392  
Seq#:35; N Pos. 136,141,148,152,154,178,179,185,188,189,193,194,204,205,211  
Seq#:35; N Pos. 213,214,216,223,227,252,261,262,263,266,267,269,279,281,284  
Seq#:35; N Pos. 286,291,293,296,306,309,313,314,320,328,336,338,339,341,345  
Seq#:35; N Pos. 347,348,352,353,359,360  
Seq#:37; N Pos. 269,275,292,298,304,317,340,351,353,355,359,377,382,392  
Seq#:41; N Pos. 303,309,338,340,346  
Seq#:43; N Pos. 402,407  
Seq#:50; N Pos. 401  
Seq#:54; N Pos. 325,353,355,384,401  
Seq#:57; N Pos. 341,356,374,402  
Seq#:60; N Pos. 385  
Seq#:61; N Pos. 334,344  
Seq#:65; N Pos. 363,376  
Seq#:69; N Pos. 336,352  
Seq#:71; N Pos. 270,275,282,284,306,312,313,314,317,318,319,328,329,331,349  
Seq#:71; N Pos. 357,359,366,367,374,378,380  
Seq#:72; N Pos. 159,161,164,169,171,173,176,177,179,199,205,206,207,210,215  
Seq#:72; N Pos. 216,220,233,237,239,241,245,254,255,257,259,265,267,285,286  
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Seq#:75; N Pos. 349,362,375,384,390  
Seq#:77; N Pos. 176,186,198,214,230,234,258,263,285,289,324,327,349,375  
Seq#:78; N Pos. 380,383  
Seq#:83; N Pos. 409  
Seq#:84; N Pos. 397,400,402,405  
Seq#:90; N Pos. 159,167,173,185,191,196,198,207,218,228,230,231,241,242,245  
Seq#:90; N Pos. 255,257,268,272,278,279,281,283,285,288,300,313,314,323,324  
Seq#:90; N Pos. 325,328,329,330,333,334,335,336,338,339,346,357,362,363,364  
Seq#:90; N Pos. 366,369,371,378  
Seq#:91; N Pos. 301,303,321,343,353,360,374,386,395,399  
Seq#:93; N Pos. 74,75,80,84,85,86,109,113,128,137,143,146,148,155,166,167  
Seq#:93; N Pos. 169,172,175,179,184,185,188,189,191,194,206,220,221,224,233  
Seq#:93; N Pos. 237,241,249,270,272,278,279,280,282,283,285,286,287,290,293

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Input Set : D:\seqlist.txt  
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Seq#:93; N Pos. 307,309,310,315,324,326,327,329,330,333,338,339,340,344,348  
Seq#:93; N Pos. 356,358,361,362  
Seq#:94; N Pos. 118,120,124,126,130,132,135,140,143,146,149,150,158,159,160  
Seq#:94; N Pos. 161,165,169,170,173,175,177,179,185,189,197,201,203,206,208  
Seq#:94; N Pos. 215,216,218,219,220,222,224,225,230,234,240,241,242,247,252  
Seq#:94; N Pos. 255,258,263,264,265,266,267,268,271,275,279,280,288,289,291  
Seq#:94; N Pos. 294,299,300,305,309,317,319,320,333,336,340,352,360

## VERIFICATION SUMMARY

DATE: 05/06/2003

PATENT APPLICATION: US/09/404,706A

TIME: 13:56:38

Input Set : D:\seqlist.txt

Output Set: N:\CRF4\05062003\I404706A.raw

L:32 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:180  
M:341 Repeated in SeqNo=4  
L:167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
M:341 Repeated in SeqNo=8  
L:217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:300  
M:341 Repeated in SeqNo=11  
L:279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:360  
L:322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:240  
M:341 Repeated in SeqNo=18  
L:370 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:300  
M:341 Repeated in SeqNo=21  
L:515 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:300  
M:341 Repeated in SeqNo=31  
L:549 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:360  
L:569 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:360  
L:584 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:120  
M:341 Repeated in SeqNo=35  
L:619 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:240  
M:341 Repeated in SeqNo=37  
L:680 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:300  
L:711 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:360  
L:815 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:360  
L:875 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:300  
M:341 Repeated in SeqNo=54  
L:922 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:300  
M:341 Repeated in SeqNo=57  
L:970 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:360  
L:988 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:300  
L:1050 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:360  
L:1110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:300  
L:1142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:240  
M:341 Repeated in SeqNo=71  
L:1159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:120  
M:341 Repeated in SeqNo=72  
L:1207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:300  
M:341 Repeated in SeqNo=75  
L:1237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77 after pos.:120  
M:341 Repeated in SeqNo=77  
L:1260 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:360  
L:1336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83 after pos.:360  
L:1355 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:360  
L:1440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90 after pos.:120  
M:341 Repeated in SeqNo=90  
L:1462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:300  
M:341 Repeated in SeqNo=91  
L:1491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:60  
M:341 Repeated in SeqNo=93



## VERIFICATION SUMMARY

DATE: 05/06/2003

PATENT APPLICATION: US/09/404,706A

TIME: 13:56:38

Input Set : D:\seqlist.txt

Output Set: N:\CRF4\05062003\I404706A.raw

L:1510 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:60

M:341 Repeated in SeqNo=94

L:1579 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99 after pos.:0